L0310000000--Cook County
Magnus Company, Inc.
ILD984766360
SF/HRS

Hazard Ranking System

Preliminary Score
Projected Score

Facility Name : Magnus Company, Incorporated

Location : 4041 S. Emerald Ave. Chicago, IL 60607

EPA Region : USEPA Region V

Person(s) In Charge of the Facility : Mr. John Legno, Plant Manager

Mr. Eli Winkel, Property Owner

Name of Reviewer : Gregory W. Dunn Date : April 7, 1989

General Description of the Facility :
(For example, landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Magnus Company, Inc. was a manufacturer of brass journals for the railroad industry from 1915 to 1936. The facility was then used by the American Key Can Company from the early 1940's up to 1952. American Key Can Co. made keys and other devices for opening cans and other packages. House-O-Lite is the current operator at the facility that fabricates and processes fluorescent light fixtures.

HRS Scores : Sm = 1.69 (Sgw = 2.93 Ssw = 0.00 Sa = 0.00)

Pro Scores : Sm = 16.52 (Sgw = 28.57 Ssw = 0.00 Sa = 0.00)

Figure 1
HRS Cover Sheet

File Name : a:\magnus

HRS Ground Water Route Work Sheet

Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					
Depth to Aquifer of Concern	0 1 2 3	2	0	6	3.2
Net Precipitation	0 1 2 3	1	1	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	2	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics score			6	15	
[3] Containment	0 1 2 3	1	2	3	3.3
[4] Waste Characteristics					3.4
Toxicicty/Persistence	0 3 6 9 12 15 18	1	6	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics score			14	26	
[5] Targets					3.5
Ground Water Use	0 1 2 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	4	40	
Total Targets score			10	49	
[6] If line [1] is 45, multiply [1] X [4] X [5] If line [1] is 0, multiply [2] X [3] X [4] X [5]			1.7E	57,330	
[7] Divide line [6] by 57,330 and multiply by 100		S =	2.93		

File Name : a:\magnus

HRS Surface Water Route Work Sheet

Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	0	45	4.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	4.2
1-yr. 24 hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	0	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics score			5	15	
[3] Containment	0 1 2 3	1	2	3	4.3
[4] Waste Characteristics					4.4
Toxicicty/Persistence	0 3 6 9 12 15 18	1	6	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics score			14	26	
[5] Targets					4.5
Surface Water Use	0 1 2 3	3	0	9	
Distance to Sensitive Environment	0 1 2 3	2	0	6	
Distance to Water Intake Downstream	12 16 18 20 24 30 32 35 40		0		
Total Targets score			0	55	
[6] If line [1] is 45, multiply [1] X [4] X [5] If line [1] is 0, multiply [2] X [3] X [4] X [5]			0.0E	64,350	
[7] Divide line [6] by 64,350 and multiply by 100		S =	0.00		

File Name : a:\magnus

HRS Air Route Work Sheet

Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	0	45	5.1
Date and Location: Sampling Protocol:					
If line [1] is 0, the S a = 0, Enter on line [5] If line [1] is 45, then proceed to line [2]					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Route Characteristics score				20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
[4] Multiply [1] X [2] X [3]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S a =			0

File Name : a:\magnus

PRO Ground Water Route Work Sheet

Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	45*	45	3.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					
Depth to Aquifer of Concern	0 1 2 3	2	0	6	3.2
Net Precipitation	0 1 2 3	1	1	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	2	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics score			6	15	
[3] Containment	0 1 2 3	1	2	3	3.3
[4] Waste Characteristics					3.4
Toxicicty/Persistence	0 3 6 9 12 15 18	1	18*	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics score			26	26	
[5] Targets					3.5
Ground Water Use	0 1 2 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	8*	40	
Total Targets score			14	49	
[6] If line [1] is 45, multiply [1] X [4] X [5] If line [1] is 0, multiply [2] X [3] X [4] X [5]			1.6E	57,330	
[7] Divide line [6] by 57,330 and multiply by 100 S = 28.57					

A '*' represents a data gap between the Pre and the Pro

File Name : a:\magnus

PRO Surface Water Route Work Sheet

Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	0	45	4.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	4.2
1-yr. 24 hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	0	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics score			5	15	
[3] Containment	0 1 2 3	1	2	3	4.3
[4] Waste Characteristics					4.4
Toxicicty/Persistence	0 3 6 9 12 15 18	1	15*	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics score			23	26	
[5] Targets					4.5
Surface Water Use	0 1 2 3	3	0	9	
Distance to Sensitive Environment	0 1 2 3	2	0	6	
Distance to Water Intake Downstream	12 16 18 20 24 30 32 35 40		0		
Total Targets score			0	55	
[6] If line [1] is 45, multiply [1] X [4] X [5] If line [1] is 0, multiply [2] X [3] X [4] X [5]			0.0E	64,350	
[7] Divide line [6] by 64,350 and multiply by 100 S = 0.00					

A '*' represents a data gap between the Pre and the Pro

File Name : a:\magnus

PRO Air Route Work Sheet					
Rating Factor	Assigned Value	Multiplier	Score	Max. Score	Ref. Section
[1] Observed Release	0 45	1	0	45	5.1
Date and Location: Sampling Protocol:					
If line [1] is 0, the S a = 0, Enter on line [5] If line [1] is 45, then proceed to line [2]					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Route Characteristics score				20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
[4] Multiply	[1] X [2] X [3]			35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S a =			0

A '*' represents a data gap